

S6161-VJ-FSE-010/28873

0910-LP-017-8890

**TECHNICAL MANUAL
FOR
MIXER
MODEL A120T**

HOBART CORPORATION
701 RIDGE AVENUE
TROY, OHIO 45374-0001
CAGE:28873

N00024-93-C-2303



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15 JANUARY 1998

APPROVAL AND PROCUREMENT RECORD

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N00024-93-C-2303	AOE 10	2	2	National Steel and Shipbuilding Co.

REMARKS:

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Certification: It is hereby certified that NAVSEA S6161-VJ-FSE-010/28873 provided under this contract N00024-93-C-2303 has been approved by authority of basic approval data shown above.



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ILS Manager

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TECHNICAL MANUAL VALIDATION CERTIFICATE

NAVSEA 4160/3 (4-82)

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I-VALIDATION

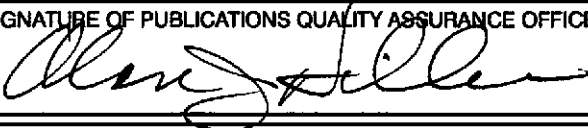
Except as stated in II, the technical manual identified above has been satisfactorily validated in accordance with all requirements of the applicable TMCR and the approved Validation Plan. The technical manual is hereby certified to be accurate and complete, and the information, instructions, text, and illustrations conform in all respects to the applicable general and detailed specifications.

II-EXCEPTIONS

EXCEPTIONS

AUTHORIZED BY

SIGNATURE OF PUBLICATIONS QUALITY ASSURANCE OFFICER



DATE
AUGUST 7, 1997

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GENERAL

The model A120T mixer is a 12 quart, bench-type mixer with a $\frac{1}{3}$ H.P. Hobart-built motor, a #12 attachment hub, and a 0 - 15 minute timer.

There are a variety of attachments and accessories available for all models, and these are explained in a separate *Use and Applications Handbook* which is supplied with each mixer.

INSTALLATION

UNPACKING

Immediately after unpacking the mixer, check for possible shipping damage. If this machine is found to be damaged after unpacking, save the packaging material and contact the carrier within 15 days of delivery.

Prior to installation, test the electrical service to assure that it agrees with the specifications on the machine data plate.

LOCATION

Place the mixer on a suitable sturdy level surface. There should be adequate space around the mixer for the user to operate the controls and install and remove bowls.

Holes are provided in the base to permanently secure the mixer, although this is not necessary in normal installations. Four plastic plugs are supplied with the mixer to plug these holes if they are not used.

ELECTRICAL CONNECTIONS (Cord Connected Mixers)

WARNING: THE ELECTRICAL CORD ON THIS MACHINE IS EQUIPPED WITH A THREE-PRONGED GROUNDING PLUG WHICH MUST BE CONNECTED TO A PROPERLY GROUNDING RECEPTACLE. IF THE RECEPTACLE IS NOT THE PROPER GROUNDING TYPE, CONTACT AN ELECTRICIAN. DO NOT REMOVE THE GROUNDING PRONG FROM THE PLUG.

OPERATION

WARNING: MOVING BEATER IN BOWL. KEEP HANDS, CLOTHING, AND UTENSILS OUT WHILE IN OPERATION.

CONTROLS

All models are furnished with an On-Off toggle switch which controls power to the mixer.

The **TIMER** is used in conjunction with the On-Off switch for timed mixing operations and will stop the mixer when the desired time has elapsed.

With the timer set on **HOLD**, the mixer will run until the On-Off switch is turned Off.

The **GEAR SHIFT LEVER** (Fig. 1) is used to change speeds. Always stop the mixer before changing speeds. To change speeds, turn the switch Off, move the gear shift lever to the desired speed, and turn the switch back On.

Speed 1 (Low) — This speed is for heavy mixtures such as bread dough, heavy batters, and potatoes.

Speed 2 Medium) — This speed is for light dough which must rise quickly, cake batters, and some whipping operations.

Speed 3 (High) — This is a fast speed for light work such as whipping cream, beating eggs, and mixing thin batters.

The **BOWL LIFT HANDLE** (Fig. 1) is used to raise and lower the bowl. To raise the bowl, rotate the handle upward; rotating the handle downward lowers the bowl.

MIXING

This section explains operation of the mixer and how to install bowls, agitators, and attachments. A separate *Use and Applications Handbook* is provided with the mixer which contains information on mixing procedures and outlines specific uses for agitators, attachments, and accessories.

Bowl

New mixer bowls and agitators (beaters, whips, and dough arms) should be thoroughly washed with hot water and a mild soap solution, rinsed with either a mild soda or vinegar solution, and thoroughly rinsed with clear water **BEFORE** being put into service. This cleaning procedure should also be followed for bowls and agitators before whipping egg whites or whole eggs.

The bowl must be installed before the agitator. To install the bowl, fully lower the bowl support (Fig. 1). Position the bowl so the alignment bracket on the back of the bowl is in the bowl retainer and the alignment pins (Fig. 1) on the front of the bowl support fit in the holes on the sides of the bowl. Lock the bowl in place by rotating the bowl clamps (Fig. 1) over the ears of the bowl.

Agitator

To install an agitator (Fig. 1), the bowl must be installed and fully lowered. Place the agitator in the bowl, push it up on the agitator shaft, and turn it clockwise to seat the shaft pin in the slot of the agitator shank.

A120 WITH TIMER

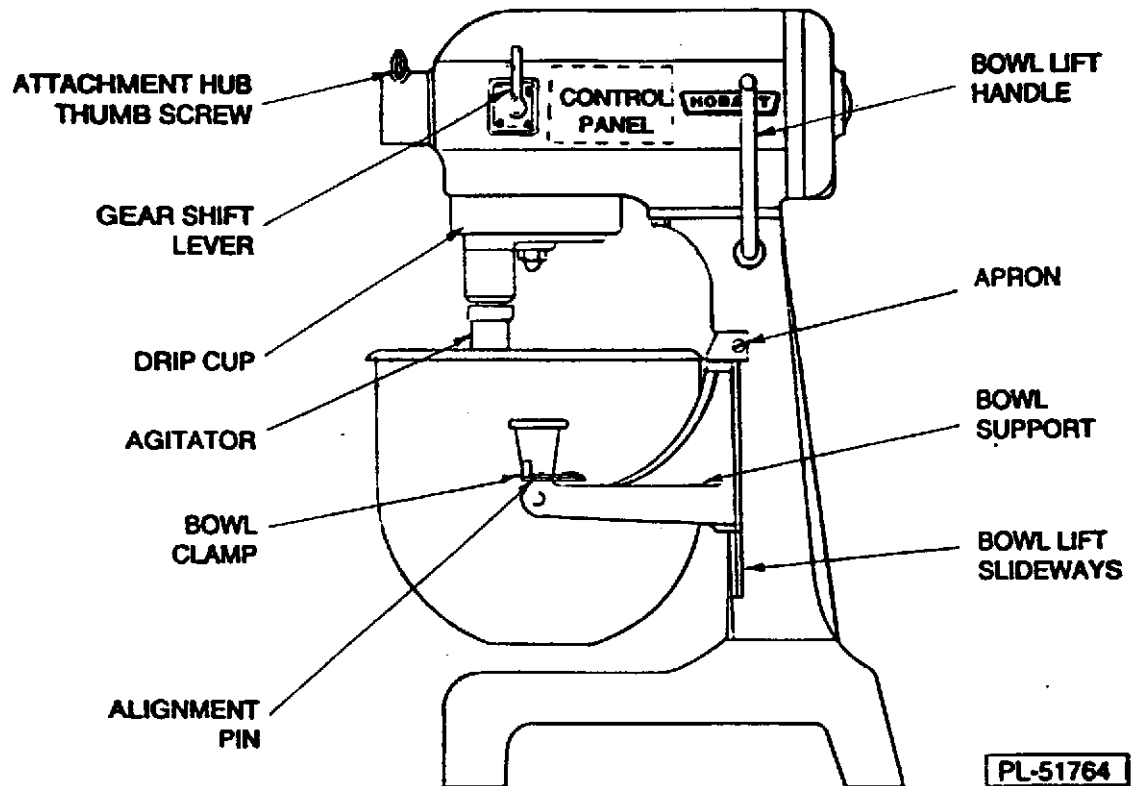
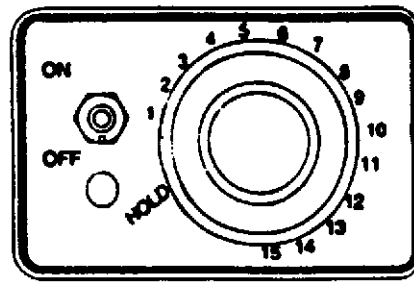


Fig. 1

Attachments

To install an attachment, loosen the thumb screw on the attachment hub (Fig. 1) and remove the plug. Insert the attachment into the attachment hub making certain that the square shank of the attachment is in the square driver of the mixer. Secure the attachment by tightening the thumb screw.

Move the gear shift lever to the desired speed and start the mixer to operate the attachment.

The meat and food chopper attachment should be operated in second or third speed. If material in the cylinder stalls the mixer, stop the mixer at once. DO NOT attempt to restart the mixer in a lower speed — remove the adjusting ring, knife, plate, and worm and clear the obstruction. THIS ATTACHMENT MUST NOT BE USED TO CHOP BREAD CRUMBS.

CLEANING

WARNING: UNPLUG MACHINE POWER CORD BEFORE BEGINNING ANY CLEANING PROCEDURE.

The mixer should be thoroughly cleaned daily.

Bowls and agitators should be removed from the mixer and cleaned in a sink.

DO NOT use a hose to clean the mixer — it should be washed with a clean damp cloth. The apron (Fig. 1) may be removed by loosening the two screws.

The drip cup (Fig. 1) should be removed periodically and wiped clean. A large flat blade screwdriver may be used to remove the drip cup.

MAINTENANCE

WARNING: UNPLUG MACHINE POWER CORD BEFORE BEGINNING ANY MAINTENANCE PROCEDURE.

LUBRICATION

Bowl Clamps (Fig. 1) should be lubricated twice a year.

Motor

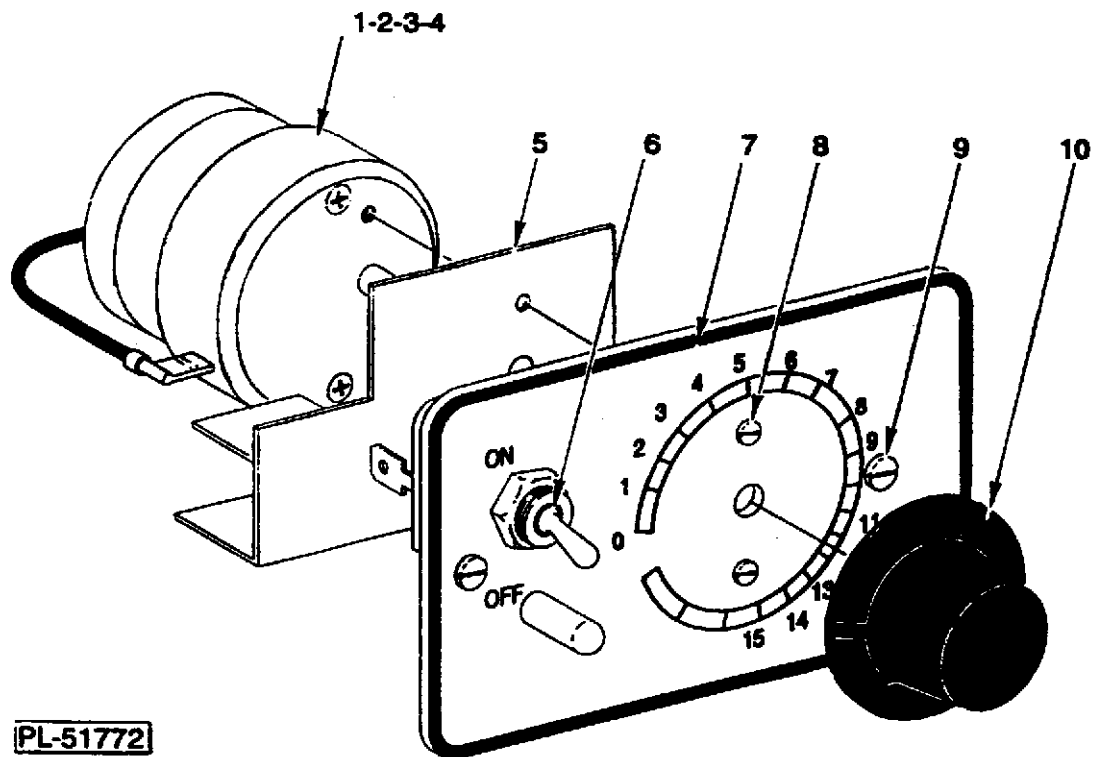
The motor has sealed ball bearings which require no lubrication maintenance.

Bowl Lift Slideways

The slideways (Fig. 1) should be lubricated once each month. Remove the apron (Fig. 1) secured by two thumb screws to expose the slideways. Then apply a light coat of Lubriplate 630AA (supplied) to three sides of both slideways. Replace the apron and thumb screws.

SERVICE

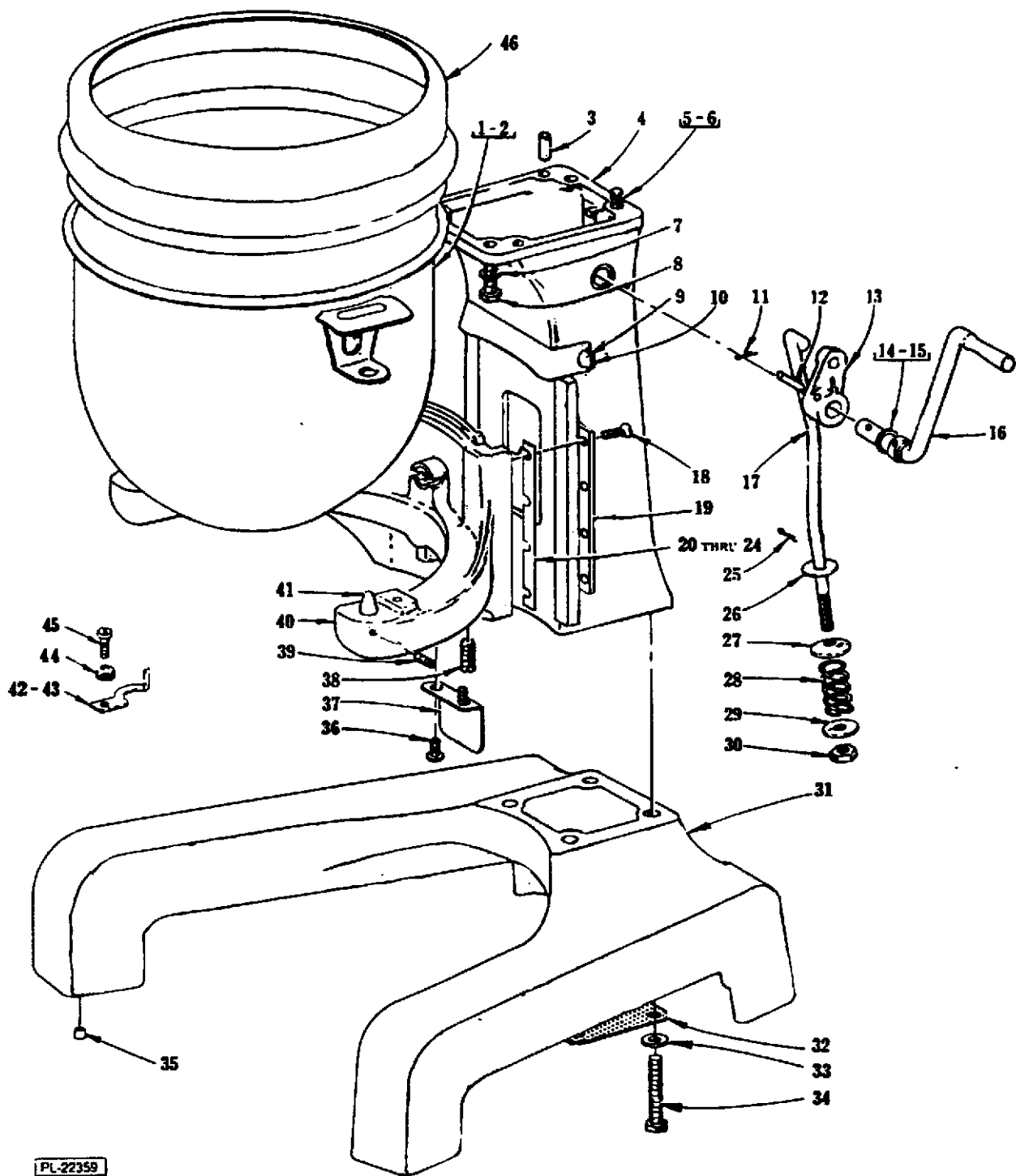
If service is needed on this equipment, contact your local Hobart Service Office.



PL-51772

SWITCH & TIMER UNIT

ILLUS. PL-51772	PART NO.	NAME OF PART	AMT.
1	294650-4-5	Timer (115 V., 60 Hz.)	1
2	294650-4-6	Timer (230 V., 60 Hz.)	1
3	294650-4-7	Timer (115 V., 50 Hz.)	1
4	294650-4-8	Timer (220 V., 50 Hz.)	1
5	291746	Insulator - Switch	1
6	120388	Switch & Label Assy.	1
7	438537-1	Switch Plate & Pin Assy.	1
8	SC-13-7	Mach. Screw 5-40 x 1/4 Flat Hd.	1
9	123109	Screw 6-32 x 3/4 Serrated Hd.	2
10	291748	Knob - Timer	1

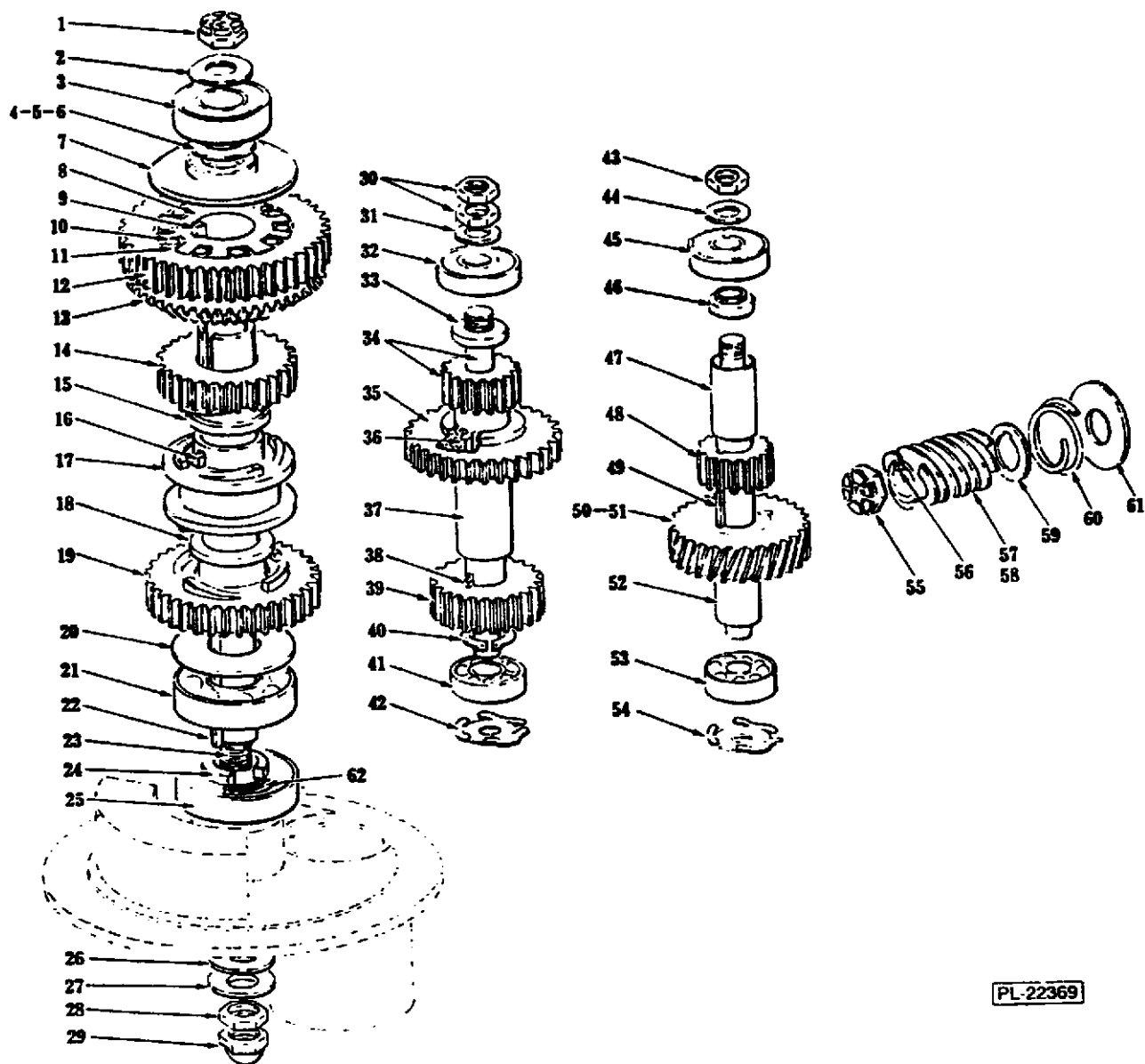


PL-22359

BASE, PEDESTAL AND BOWL UNIT

BASE, PEDESTAL AND BOWL UNIT

ILLUS. PL-22359	PART NO.	NAME OF PART	AMT.
1	275682	Bowl Assy. (12 qt.) (Standard)	1
2	295643	Bowl Assy. (12 qt.) (SST)	1
3	270776	Dowel	1
4	78634-2	Pedestal (Painted)	1
5	SC-11-95	Mach. Screw 1/4-18 x 1 Fil. Hd.	2
6	WL-3-43	Lockwasher 1/4 Light	2
7	WL-3-43	Lockwasher 1/4 Light	2
8	SC-38-27	Cap Screw 1/4-18 x 1 Hex Hd.	2
9	70641-11	Thumb Screw 8-32 "Special"	2
10	78506	Shield - Upper Splash	1
11	PC-3-55	Cotter Pin 1/4 x 1/4	1
12	PS-4-15	Spiral Pin 1/4 Dia. x 1 1/2 Lg.	1
13	114430	Arm - Bowl Lift	1
14	WS-9-11	Washer (STL)	AR
15	WS-9-13	Washer (Fiber)	AR
16	114432	Bowl Lift Handle Assy.	1
17	12714	Rod - Bowl Lift	1
18	SC-13-49	Mach. Screw 10-24 x 1/2 Flat Hd.	8
19	12715	Gib - Bowl Support	2
20	16388-1	Shim - Bowl Support (.003" Thk.)	AR
21	16388-4	Shim - Bowl Support (.009" Thk.)	AR
22	16388-5	Shim - Bowl Support (.005" Thk.)	AR
23	16388-6	Shim - Bowl Support (.0075" Thk.)	AR
24	16388-7	Shim - Bowl Support (.015" Thk.)	AR
25	PC-3-55	Cotter Pin 1/4 x 1/4	1
26	WS-6-33	Washer	AR
27	12745	Washer - Special	1
28	12782	Spring	1
29	WS-6-26	Washer	1
30	NS-36-15	Stop Nut 3/4-24 Hex "Special"	1
31	271915-3	Base (Painted)	1
32	108159	Screen - Air	1
33	WS-18-19	Washer	4
34	SC-97-53	Cap Screw 1/4-16 x 2 1/4 Hex Hd.	4
35	110717-1	Plug - Base (Plug for Foot Pads) (packed 8)	1
36	SC-60-56	Mach. Screw 10-32 x 1/4 Rd Hd.	2
37	78505	Shield - Lower Splash	1
38	121625	Set Screw - Special	1
39	5014-1	Stud - Bowl Jacket Hook	2
40	24870	Bowl Support Assy. (Incls. items 20, 21, 24, 36, 37, 38 & 41)	1
41	6938-2	Pin - Bowl Locating	2
42	291444-1	Clamp - Bowl (L.H.)	1
43	291444-2	Bowl Clamp (R.H.)	1
44	291263	Washer - Belleville	6
45	274614	Screw - Pivot	2
46	436078	Splash Cover & Bowl Extension (12 qt.)	1
	111676	Shim (Use between Pedestal & Transmission Case)	AR

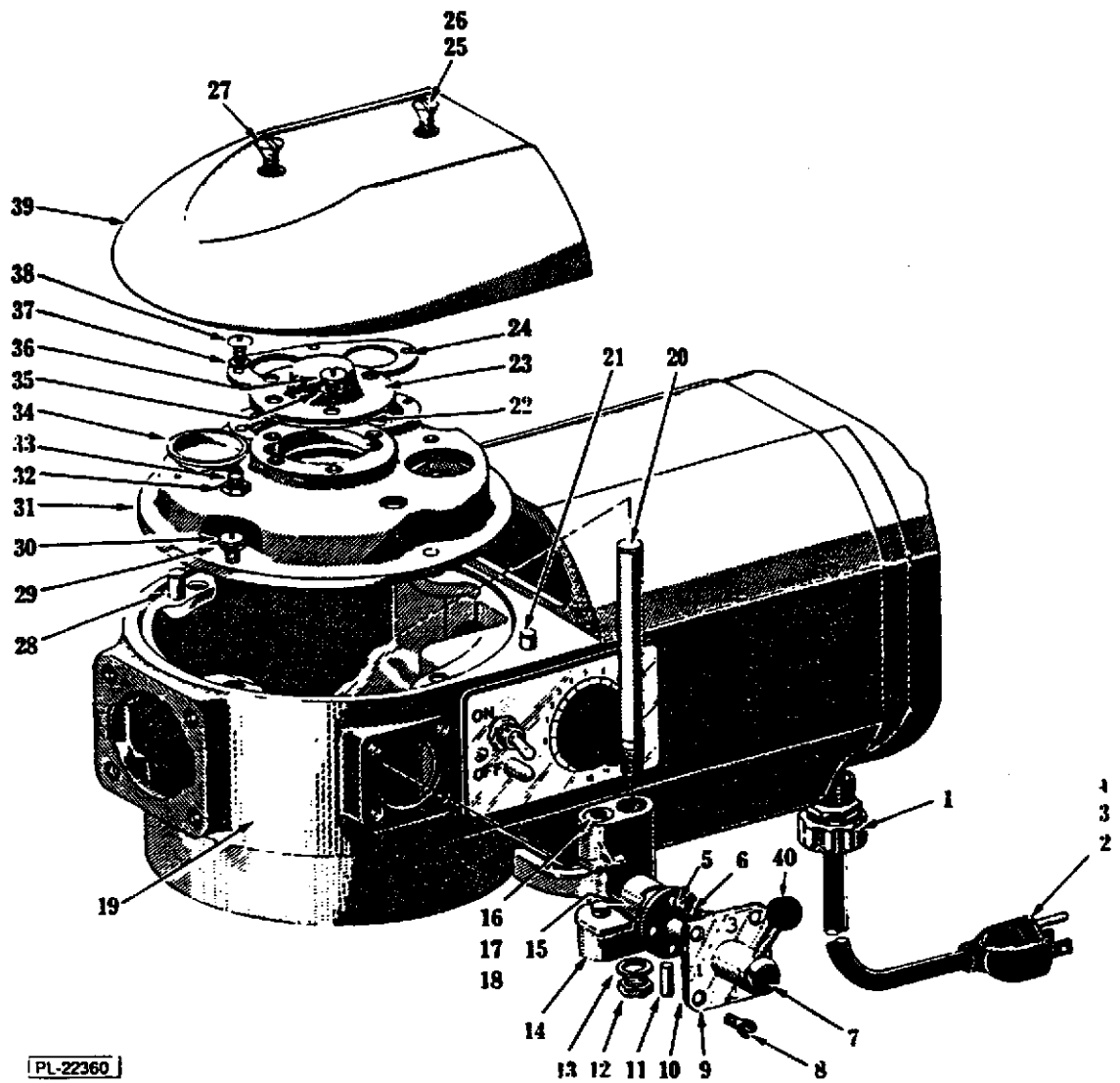


PL-22369

TRANSMISSION GEAR UNIT

TRANSMISSION GEAR UNIT

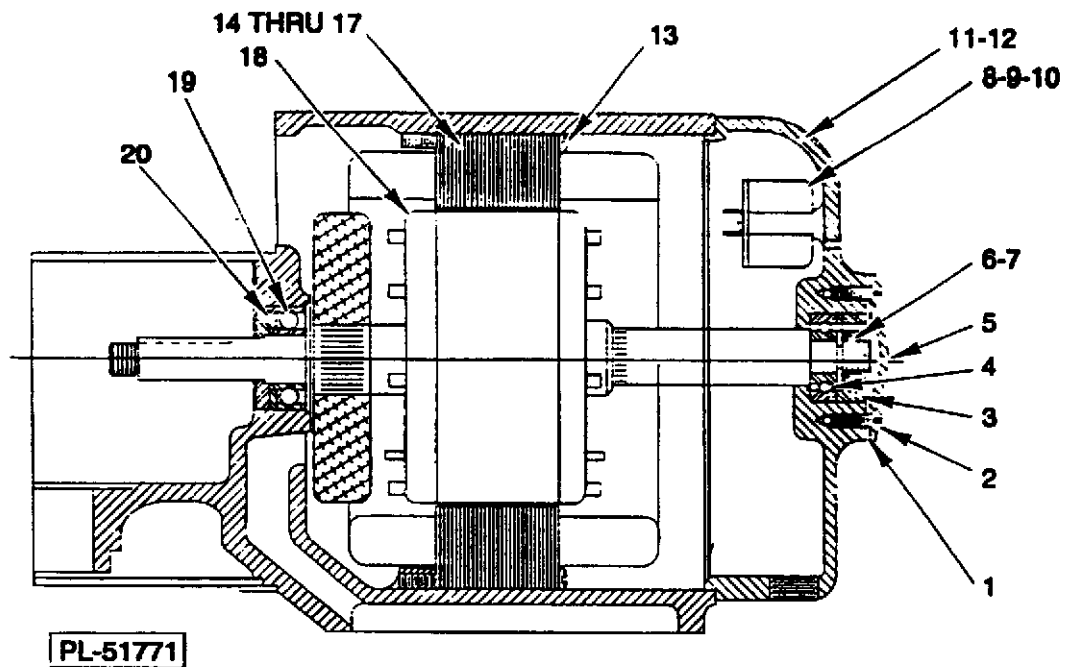
ILLUS. PL-22369	PART NO.	NAME OF PART	AMT.
1	NS-32-29	Stop Nut 1/4-20 "Flexloc"	1
2	WS-8-13	Washer - Retaining	1
3	BB-20-18	Ball Bearing - N.D. #77503	1
4	WS-10-18	Washer - Bearing Shim (.002" Thk.)	AR
5	WS-10-19	Washer - Bearing Shim (.003" Thk.)	AR
6	WS-10-20	Washer - Bearing Shim (.010" Thk.)	AR
7	107145	Spacer - Planetary Shaft	1
8	124730	Sleeve - Roller Clutch Drive	1
9	109070-2	Key	1
10	124729	Clutch - Roller	10
11	124732	Spring - Roller	10
12	124752	Gear - Slow Speed (46T)	1
13	124733	Gear - Bevel (46T)	1
14	124744	Gear - Clutch (29T)	1
15	12695	Bearing - Clutch Gear	1
16	12430-59	Key - Clutch Sleeve	2
17	70035-1	Sleeve - Clutch	1
18	12695	Bearing - Clutch Gear	1
19	124743	Gear - Lower Clutch (38T)	1
20	12723	Spacer - Lower	1
21	BB-20-6	Ball Bearing - N.D. #7504	1
22	12430-17	Key	1
23	124734	Shaft - Planetary	1
24	437342	Spacer - Bearing	1
25	114695	Seal - Oil	1
26	124946	Washer - Fiber	1
27	WS-24-1	Washer - Retaining (STL)	1
28	10928-2	Nut - Special	1
29	24715-3	Acorn Nut 1/2 - 20	1
30	12710	Nut - Retaining	2
31	WS-6-36	Washer - Retaining	1
32	BB-5-2	Ball Bearing - N.D. #7500	1
33	12744	Spacer - Upper	1
34	291236	Shaft - Transmission (15T)	1
35	124736	Gear (32T)	1
36	435297	Key	1
37	12697	Spacer - Lower	1
38	435297	Key	1
39	124760	Gear (23T)	1
40	RR-4-18	Retaining Ring	1
41	BB-5-1	Ball Bearing - N.D. #3200	1
42	SL-2-8	Spring - Preloading - N.D. #S-10-B	1
43	12710	Nut - Retaining	1
44	WS-6-36	Washer - Retaining	1
45	BB-5-2	Ball Bearing - N.D. #7500	1
46	124745	Washer	1
47	124765-1	Spacer - Gear	1
48	124748	Gear (15T)	1
49	12430-4	Key	1
50	124751-3	Worm Wheel & Bushing Assy. (60 Hz.)	1
51	124749-2	Worm Wheel & Bushing Assy. (50 Hz.)	1
52	291128	Shaft - Worm Wheel	1
53	BB-5-1	Ball Bearing - N.D. #3200	1
54	SL-2-8	Spring - Preloading - N.D. #S-10-B	1
55	NS-32-23	Lock Nut 1/4-20 "Flexloc"	1
56	12747	Key	1
57	291221	Worm (5T)(60 Hz.)	1
58	70407	Worm (5T)(50 Hz.)	1
59	12754	Washer	1
60	12757	Spring - Shock Absorber	1
61	12711	Washer - Shock Absorber Spring	1
62	67500-78	"O" Ring	1
	292799	Planetary Shaft Assy. (Incls. items 7, 8, 9, 12 thru 20 & 23)	1
	292800	Transmission Shaft Assy. (Incls. items 33 thru 40)	1
	292798-1	Worm Wheel Shaft Assy. (60Hz.) (Incls. items 46 thru 50 & 52)	1
	292798-2	Worm Wheel Shaft Assy. (50 Hz.) (Incls. items 46 thru 49, 51 & 52)	1



TRANSMISSION CASE AND SHIFTER UNIT

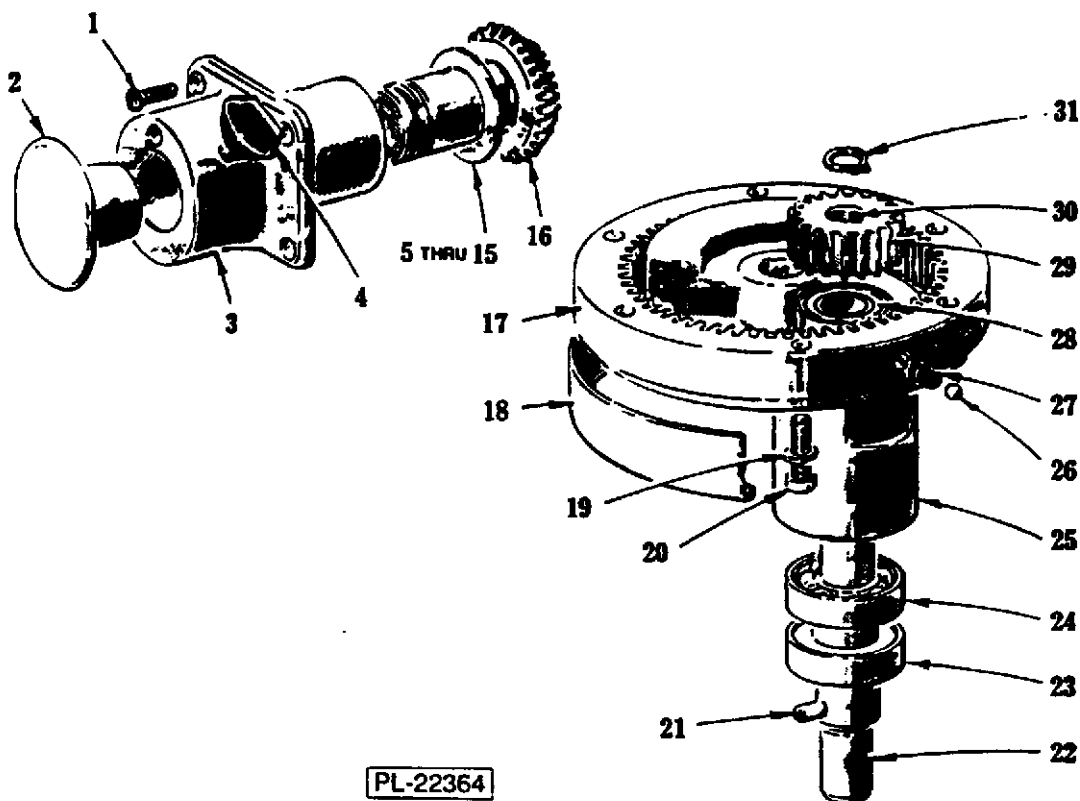
TRANSMISSION CASE AND SHIFTER UNIT

ILLUS. PL-22360	PART NO.	NAME OF PART	AMT.
1	FE-22-84	Connector - Strain Relief	1
2	117542-61	Cord & Plug Assy. (3 Cond., Under 150 V.)	1
3	117542-62	Cord & Plug Assy. (3 Cond., 200-250 V.)	1
4	117542-63	Cord Assy. (I.E.C.)	1
5	BA-2-9	Ball ½ Dia.	2
6	111170	Spring - Detent	2
7	437339	Shifter Handle Assy. (Incls. item 40)	1
8	SC-30-24	Mach. Screw 10-24 x ½ Oval Hd)	4
9	290115-1	Plate - Shifter Index	1
10	23946	Gasket - Shifter Index Plate	1
11	PS-3-8	Spiral Pin ½ Dia. x ¾ Lg.	1
12	NS-13-22	Full Nut ¾-16 Hex	1
13	WL-4-2	Lockwasher ¾ Light	1
14	13160	Yoke - Shifter	1
15	114506	Cam - Gear Shifter	1
16	12733	Plunger - Shifter Yoke	2
17	12734	Spring - Shifter Yoke	2
18	12732	Retainer - Shifter Yoke Spring	2
19	118039-2	Case - transmission (Incls. items 21 & 28)	1
20	12735	Rod - Shifter Guide	1
21	11800-61	Dowel	2
22	20395	Retainer - Bearing	1
23	20394-1	Cap - Bearing Retainer	1
24	12708	Retainer - Twin Bearing	1
25	NS-9-36	Mach. Nut 12-24 Hex	2
26	SC-15-57	Mach. Screw 12-24 x 1½ Oval Hd	1
27	SC-16-17	Mach. Screw 12-24 x 1½ Oval Hd	1
28	11800-116	Dowel	1
29	WL-3-28	Lockwasher 12 Light	4
30	SC-119-7	Mach. Screw 12-24 x ¾ Hex Hd	4
31	67750	Transmission Shaft Support & Screw Assy. (Incls. items 32 & 33)	1
32	NS-9-36	Mach. Nut 12-24 Hex	1
33	SC-8-56	Mach. Screw 12-24 x ½ Rd. Hd	1
34	64871	Plug - Friction	2
35	WL-3-28	Lockwasher 12 Light	3
36	SC-8-48	Mach. Screw 12-24 x ½ Rd. Hd	3
37	WL-3-22	Lockwasher 10 Light	4
38	SC-18-1	Mach. Screw 10-24 x ¾ Pan Hd.	4
39	18231-1	Cover - Transmission Case	1
40	77401	Knob - Shifter Handle	1
	79999	Shifter Assy. (Incls. items 5, 6, 7, 9, 11 & 15)	1



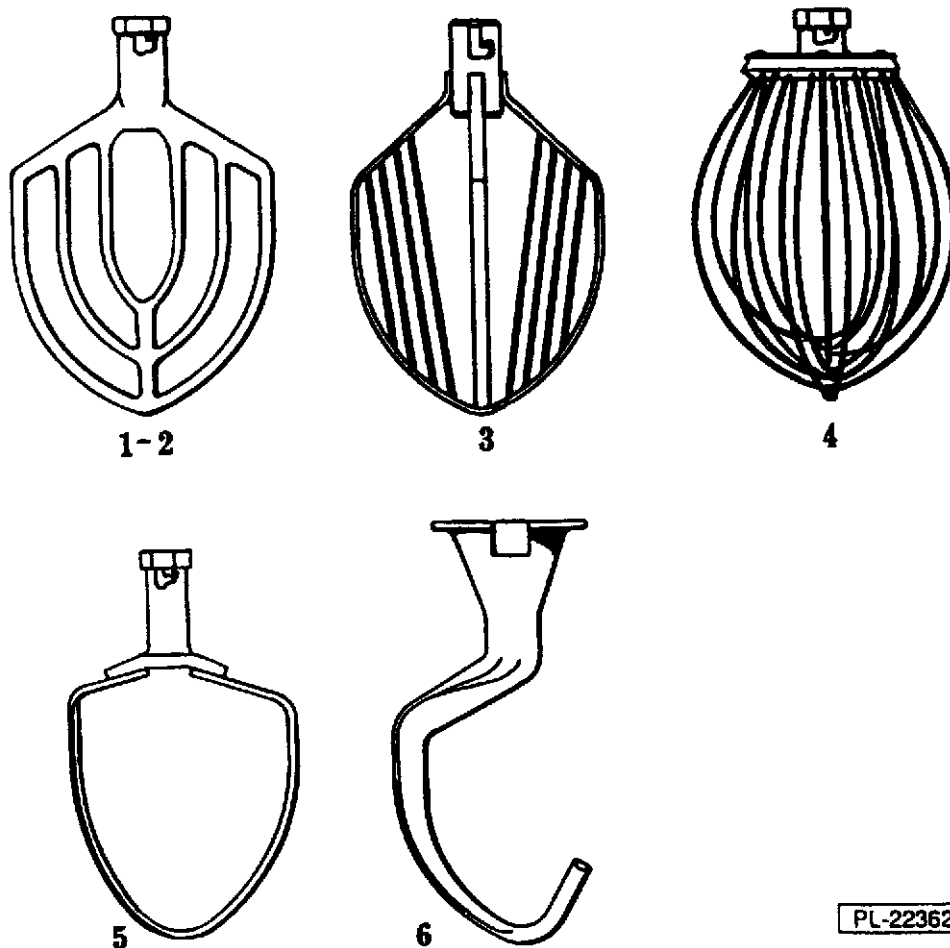
MOTOR PARTS

ILLUS. PL-51771	PART NO.	NAME OF PART	AMT.
1	24464	Gasket - Cover Cap	1
2	SC-10-32	Mach. Screw 8-32 x 3/4 Truss Hd.	4
3	12869	Spacer - Bearing	1
4	BB-17-5	Ball Bearing N.D. #7601	1
5	294306-1	Cap - Cover (Deluxe)	1
6	11430	Nut - Special	2
7	WS-7-9	Washer - Special	1
8	271612-2	Switch - Electronic Start (50/60 Hz.)	1
9	271794-1	Standoff - Switch	2
10	SC-9-64	Mach. Screw 6-32 x 1 Rd. Hd.	2
11	438536-2	Bracket - Bearing (Painted)	1
12	SC-16-31	Mach. Screw 12-24 x 2 Oval Hd.	4
13	SC-12-59	Mach. Screw 10-24 x 2 1/4 Fil. Hd.	4
14	65477-164-1	Stator Assy. (115 V., 60 HZ)	1
15	65477-164-5	Stator Assy. (230V., 60 HZ)	1
16	65477-164-2	Stator Assy. (115V., 50 HZ)	1
17	65477-164-6	Stator Assy. (220 V., 50 HZ)	1
18	22275-274	Rotor Assy.	1
19	BB-5-30	Ball Bearing - N.D #C8503	1
20	13174-1	Deflector - Grease	1
	SC-18-77	Mach. Screw 6-32 x 3/8 Phil Pan Hd.	1
	WL-3-9	Lockwasher 6 Medium	1
	70487-18	Capacitor	1
	271937	Clip - Capacitor Retaining	1



PLANETARY AND ATTACHMENT HUB UNIT

ILLUS. PL-22364	PART NO.	NAME OF PART	AMT.
1	SC-13-71	Mach. Screw 12-24 x 1/4 Flat Hd	4
2	114832-1	Plug - Attachment Hub	1
3	435047-4	Hub - Attachment (Painted)	1
4	108197-1	Thumb Screw	1
5	12746-5	Washer - Thrust (.080)	AR
6	12746-6	Washer - Thrust (.106)	AR
7	12746-7	Washer - Thrust (.092)	AR
8	12746-8	Washer - Thrust (.086)	AR
9	12746-9	Washer - Thrust (.098)	AR
10	12746-10	Washer - Thrust (.112)	AR
11	12746-12	Washer - Thrust (.119)	AR
12	12746-13	Washer - Thrust (.121)	AR
13	12746-16	Washer - Thrust (.129)	AR
14	12746-18	Washer - Thrust (.117)	AR
15	12746-19	Washer - Thrust (.115)	AR
16	435065	Bevel Drive Gear & Seal Assy.	1
17	12682	Internal Gear Assy. (56T)(Incls. items 26 & 27)	1
18	12684-1	Cup - Drip	1
19	WL-3-35	Lockwasher 1/4 Helical	6
20	SC-40-8	Cap Screw 1/4-20 x 1 Soc. Hd.	6
21	65062-2	Pin	1
22	113949	Agitator Shaft Assy. (Incls. item 21)	1
23	121814	Seal - Oil (1/4" I.D.)	1
24	BB-17-12	Ball Bearing - N.D. #7503	1
25	113953	Planetary	1
26	8A-2-9	Ball 1/4 Dia.	2
27	7094	Spring	2
28	BB-17-12	Ball Bearing - N.D. #7503	1
29	12683	Pinion - Beater (17T)	1
30	12430-48	Key - 1/4 Sq. x 1/4 Lg.	1
31	RR-4-18	Retaining Ring	1



PL-22362

AGITATORS

ILLUS. PL-22362	PART NO.	NAME OF PART	AMT.
1	275549	"B" Flat Beater (Standard)	1
2	275551	"B" Flat Beater (SST)	1
3	295166	"C" Wire Whip	1
4	275895	"D" Wire Whip (SST)	1
5	315692	"P" Pastry Knife	1
6	275930	"E" Dough Arm	1

NAVSEA/SPAWAR TECHNICAL MANUAL DEFICIENCY/EVALUATION REPORT (TMDER)

INSTRUCTIONS: Continue on 8 1/2" x 11" page if additional space is needed.

1. Use this report to indicate deficiencies, problems and recommendations relating to publications.

2. For CLASSIFIED TMDERs see OPNAVINST 5510H for mailing requirements.

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